



PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/823,483
Filing Date	04/12/2004
First Named Inventor	Avto TAVKHELIDZE
Art Unit	2834
Examiner Name	

Attorney Docket Number 12025.US.CIP.CIP

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (<i>i</i> f known)			
VAT		US- 3,821,462-A	06-28-1974	Kaufman et al.	174 15C
VAT		US- 4,188,571-A	02-12-1980	Brunson	322 2R
VAT		US- 4,373,142-A	02-08-1983	Morris	310 306
VAT		US- 5,068,535-A	11-26-1991	Rabalais, JW	250 309
VAT		US- 5,503,963-A	04-02-1996	Bifano, TG	430 321
VAT		US- 6,117,344-A	09-12-2000	Cox, IW et al.	216 11
VAT		US- 2002/0170172-A1	11-21-2002	Tavkhelidze et al.	29 842
VAT		US- 6,489,704-B1	12-03-2002	Kucherov, et al.	310 306
VAT		US- 2003/0042819-A1	03-06-2003	Martinovsky, et al.	310 306
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (<i>i</i> f known)				
VAT		WO 99/10974-A1	03-04-1999	COX, R.T.	H0ZN 10 00	
VAT		WO 03/021758-A2	03-03-2003	MARTINOVSKY et	H02.M	
VAT		WO 03/083177-A3	10-09-2003	TAVKHELIDZE et	(2SF 3) 02	

Examiner Signature

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Date Considered

2/16/06

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U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)		Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US- 2,510,397	06-06-1950	Hansell, C.W.
		US- 2,915,652	12-01-1959	Hatsopoulos, G.N.
		US- 3,021,472	02-13-1962	Hernqvist, K.G.
		US- 3,118,107	01-14-1964	Gabor, D.
		US- 3,194,989	07-13-1965	Garbuny
		US- 3,169,200	02-09-1965	Huffman, F.N.
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		US- 3,393,330	07-16-1968	Vary, A.
		US- 3,470,393	09-30-1969	Moncorge, G.
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)			
WJD	SU 861916 A		09-10-1981	Burmistrov, V.M.	F28D 15/00
WMT	JP 404080964A		03-13-1992	Ando, Y.	H01L 29/68
WJM	WO 97/02460 A1		01-23-1997	Edelson, J.S.	F28D 15/00
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WMT	WO 03/090245 A1		10-30-2003	Tavkhelidze et	H01J 17/30

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/823,483
		Filing Date	04/12/2004
		First Named Inventor	Avto TAVKHELIDZE
		Art Unit	
		Examiner Name	
		Attorney Docket Number	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Sheet 2 of 6

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		Number-Kind Code ² (if known)			
		US- 3,578,992	05-18-1971	Shimada, K. Paine, T.O.	310 4
		US- 3,740,592 A	06-19-1973	Engdahl et al.	310 4
		US- 3,843,896	10-22-1974	Rason et al.	310 4
[L]		US- 4,004,210	01-18-1977	Yater, J.C.	322 2R
		US- 4,039,352	08-02-1977	Marinescu, M.	136 205
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		US- 4,011,582 A	03-08-1977	Cline et al.	357 60
		US- 4,063,965 A	12-20-1977	Cline et al.	148 15
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		US- 4,281,280	07-28-1981	Richards	322 2R
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		US- 4,958,201	09-18-1990	Mimura, T.	357 16
		US- 5,028,835	07-02-1991	Fitzpatrick, G.O.	313 14
		US- 5,049,775	09-17-1991	Smits, J.	310 328
		US- 5,083,056	01-21-1992	Kondou, Y.	310 332
		US- 5,119,151	06-02-1992	Onda, K.	357 22

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Examiner Signature	Van Lee	Date Considered	4/3/06
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Sheet 3 of 6

Application Number 10/823,483

Filing Date 04/12/2004

First Named Inventor Avto TAVKHELIDZE

Art Unit

Examiner Name

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U. S. PATENT DOCUMENTS

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		Number-Kind Code ² (if known)			
		US- 5,233,205	08-03-1993	Usagawa, T.	257 23
		US- 5,229,320	07-20-1993	Ugajin, R.	437 107
		US- 5,247,223	09-21-1993	Mori, Y.	313 308
		US- 5,351,412	10-04-1994	Furuhashi, T.	33 568
		US- 5,307,311	04-26-1994	Sliwa, Jr.	365 174
		US- 5,371,388	12-06-1994	Oda, H.	257 1194
		US- 5,332,952	07-26-1994	Ugajin, R.	315 349
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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Date Considered

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Sheet	4	of	6

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Sheet 4 of 6

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<i>John T. Goughnour (Tamm)</i>	US- 5,874,039	02-23-1999	Edelson, J.S.	204 260 R	
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>AVT</i>		FITZPATRICK, G.O. ET AL. "Close-Spaced Thermionic Converters with Active Spacing Control and Heat Pipe Isothermal Emitters." IEEE.vol. 2: pp 920-927 (1996).	
<i>AVT</i>		FITZPATRICK, G.O. ET AL. "Demonstration of Close-Spaced Thermionic Converters." Abs. Papers. Am. Chem. Soc. 93355: pp 1.573-1.580 (1993).	
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<i>AVT</i>		HOUSTON. J.M. "Theoretical Efficiency of the Thermionic Energy Converter." J.Appl. Phys. 30: pp 481-487 (1959).	
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<i>AVT</i>		FUKUDA. R. ET AL. "Development of the Oxygenated Thermionic Energy Converters Utilizing the Sputtered Metal Oxides as a Collector." Am. Inst. Phys. pp 1444-1451 (1999).	
<i>AVT</i>		SVENSSON, R. AND HOLMID. L. "TEC as Electric Generator in an Automobile Catalytic Converter." IEEE. vol. 2: pp 941-944 (1996).	

Examiner Signature	<i>AVT</i>	Date Considered	<i>2/13/06</i>
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		FITZPATRICK G O ET AL: "Updated perspective on the potential for thermionic conversion to meet 21st century energy needs" IECEC'97. PROCEEDINGS OF THE 32nd INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE. ENERGY SYSTEMS, RENEWABLE ENERGY RESOURCES, ENVIRONMENTAL IMPACT AND POLICY IMPACTS ON ENERGY. HONOLULU, HI. JULY 27 - AUG. 1, 1997. INTERSOCIETY ENERGY CONVERS. vol 3 & 4, 27 July 1997 (1997-07-27). pages 1045-1051.			
		KALANDARISHVILI A G: "The basics of the technology of creating a small interelectrode spacing in thermionic energy converters with the use of two-phase systems" IECEC'97. PROCEEDING OF THE 32nd INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE. ENERGY SYSTEMS, RENEWABLE ENERGY RESOURCES, ENVIRONMENTAL IMPACT AND POLICY IMPACTS ON ENERGY. HONOLULU, HI. JULY 27 - AUG 1, 1997. INTERSOCIETY ENERGY CONVERS. vol. 3 & 4, 27 July 1997 (1997-07-27). pages 1052-1056.			

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